

# FOLDABLE TENT

## BACKGROUND OF THE INVENTION.

### 1. Field of the Invention

The present invention relates to a foldable tent, and more particularly to a foldable tent that is pitched and struck easily and conveniently.

### 2. Description of Related Art

A foldable tent is a convenient temporary accommodation for wilderness camping and also can be serve as a play house filled with colorful balls when the size is diminished to accommodate children. Therefore, foldable tents have multiple uses, but all kinds of foldable tents need to be pitched and struck easily and conveniently.

With reference to Fig. 8, a conventional foldable tent (50) consists of four triangular frames (52) sequentially connected in a loop to form a pyramid when the foldable tent (50) is mounted on the ground and a cover (not shown) is mounted on the triangular frames (52).

Each triangular frame (52) has two side rods (not numbered) respectively and pivotally attached to two adjacent side rods (not numbered) of adjacent frames (52) with fours sides and a bottom. With further reference to Figs. 9 and 10, each side rod is mounted in a sleeve (54) made of elastic and tough material such as canvas, and adjacent sleeve (54) are sewn together. Thereby, the assembled frames (52) in the pyramid can be pivotally folded. As shown in Fig. 8, two adjacent sides of the pyramid are pushed toward opposite adjacent sides to fold the pyramid into a V-shaped half. Than, the V-shaped half is further folded to a compressed triangular pack.

1           However, the compressed triangular pack is not neat since the sleeve  
2 (54) is stretched and adjacent side rods of the triangular frames (52) squeeze  
3 each other when the tent is folded. A resultant restitution force causes the  
4 pack to automatically spring open or not completely fold if the pack is not  
5 compressed hard.

6           The present invention has arisen to mitigate or obviate the  
7 disadvantages of the conventional foldable tent.

## 8   **SUMMARY OF THE INVENTION**

9           The main objective of the present invention is to provide a foldable  
10 tent that is neatly and conveniently folded.

11           Further benefits and advantages of the present invention will become  
12 apparent after a careful reading of the detailed description with appropriate  
13 reference to the accompanying drawings.

## 14   **BRIEF DESCRIPTION OF THE DRAWINGS**

15           Fig. 1 is a perspective view of a foldable tent in accordance with the  
16 present invention;

17           Fig. 2 is a cross-sectional top plan view of the foldable tent along  
18 line 2-2 in Fig.1;

19           Fig. 3 is an enlarged cross sectional top plan view of a corner of the  
20 foldable tent of part A in Fig. 2;

21           Fig. 4 is an operational cross sectional top plan view of the corner of  
22 the foldable tent in Fig. 3;

23           Fig. 5 is a perspective view of another embodiment of the foldable  
24 tent in accordance with the present invention;

1           Fig. 6 is a perspective view of still another embodiment of the  
2 foldable tent in accordance with the present invention;

3           Fig. 7 is a perspective view of further another embodiment of a  
4 foldable tent in accordance with the present and having six sides;

5           Fig. 8 is a perspective view of a conventional foldable tent in  
6 accordance with the prior art;

7           Fig. 9 is a cross sectional top plan view of the conventional foldable  
8 tent along line 9-9 in Fig. 8;

9           Fig. 10 is an enlarged cross sectional top plan view of the foldable  
10 tent in the area marked B in Fig. 9; and

11          Fig. 11 is an operational cross sectional top plan view of the foldable  
12 tent in Fig. 10.

### 13   **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

14          A foldable tent in accordance with the present invention comprises at  
15 least four frame loops in even numbers, a corresponding number of easing  
16 pieces and at least one cover piece. The at least four frame loops are  
17 pivotally and sequentially connected to form a tent frame. The easing pieces  
18 are attached respectively between adjacent frame loops. The at least one  
19 cover piece covers the assembled tent frame.

20          With reference to Fig. 1, a first preferred embodiment of the foldable  
21 tent comprises four egg-shaped frame loops (10), four easing pieces (20) and  
22 a cover (not numbered) and has four corners (not numbered), a top (not  
23 numbered) and a bottom (not numbered). The easing pieces (20) respectively  
24 connect adjacent frame loops (10) and form corners. Each frame loop (10)

1 has a narrow top (not numbered), a broad bottom (not numbered) and two  
2 side rods (not numbered) connected between the narrow top and the broad  
3 bottom. When the frame loops (10) assembled and connected to each other,  
4 each side rod of one frame loop (10) is connected to a side rod of an adjacent  
5 frame loop (10) by an easing piece (20). All the narrow tops of the frame  
6 loops (10) are inclined slightly inward, and all the broad bottoms of the  
7 frame loops (10) abut the ground. Thereby, a dome-shaped tent frame with  
8 four sides is achieved.

9 The cover comprises multiple cover pieces (30) and multiple peg  
10 loops (36). The cover pieces (30) are attached between the frame loops (10)  
11 and inside the frame loops (10) to cover the tent frame. The peg loops (36)  
12 are attached to the cover at bottom corners of the tent frame to hold the  
13 foldable tent on the ground by tent pegs (not shown). The cover pieces (30)  
14 can selectively be combined to form a one-piece cover to mount over the  
15 dome-shaped tent frame. Selectively, an entryway (32) is formed on one  
16 cover piece (30) at one side of the dome-shaped tent frame and a ventilation  
17 net (34) is attached to another cover piece (30) at another side of the dome-  
18 shaped tent frame.

19 With further reference to Figs. 2 and 3, each easing piece (20) has  
20 two sleeves (22) and a web (24). The sleeves (22) are mounted respectively  
21 around adjacent side rods. The web (24) is connected between the two  
22 sleeves (22) to form a corner (not numbered) in the foldable tent. Therefore,  
23 adjacent side rods are movably attached to each other to make the dome-  
24 shaped tent frame collapsible.

1           When the foldable tent is folded, two adjacent sides of the domed-  
2   shaped tent frame are pushed to close against two opposite adjacent sides to  
3   make the tent into a V-shaped half. Then, the V-shaped half is further folded  
4   to become a compressed pack the same as the conventional foldable tent.  
5   However, the easing piece (20) allows the tent to be folded so adjacent side  
6   rods are not squeezed between other adjacent side rods when the tent is  
7   folded. Therefore, the foldable tent can be neatly folded and compressed and  
8   will not rebound or spring open.

9           With reference to Fig. 5, a second embodiment of a foldable tent in  
10   accordance with the present invention is similar to the first embodiment of  
11   the foldable tent except that the frame loops (10a) are substantially  
12   trapezoidal. Each trapezoidal frame loop (10a) has a top (not numbered), a  
13   bottom (not numbered) and two sides (not numbered). Additionally, a basket  
14   (40) may be attached to the top of the trapezoidal frame loop (10a) so an  
15   entertaining game such as shooting a ball can be played.

16           With further reference to Fig. 6, a dartboard (45) may be attached to  
17   the cover (30) of the foldable tent so an entertaining game such as throwing  
18   darts can be played.

19           With reference to Fig. 7, the foldable tent in accordance with the  
20   present invention further is modified to have six frame loops (10) to  
21   construct a dome-shaped structure having six sides.

22           Although the invention has been explained in relation to its preferred  
23   embodiment, it is to be understood that many other possible modifications  
24   and variations can be made without departing from the spirit and scope of the

1 invention as hereinafter claimed.